

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 77-98

NPDES NO. CA0028312

WASTE DISCHARGE REQUIREMENTS FOR:

ZILOG INCORPORATED, CUPERTINO
SANTA CLARA COUNTY

1. Zilog Incorporated, hereinafter discharger, submitted a report of waste discharge (NPDES Short Form C) dated May 12, 1977, applying for waste discharge requirements and a permit to discharge wastes under the National Pollutant Discharge Elimination System.
2. The discharger is manufacturing electronic devices using semi-conductor manufacturing processes. The discharger proposes to discharge up to 14,000 gallons per day of reverse osmosis reject water to a storm drain tributary to Regnart Creek, and thence to Calabazas Creek, both tributaries to South San Francisco Bay and waters of the United States. As needed, part of the discharge is proposed to be diverted to irrigate the discharger's on-site ornamental landscaping.
3. The discharge is a "minor discharge" as defined in Section 2235(e) of Chapter 3, Title 23 of the California Administrative Code, and is not of a category for which effluent limitations, standards of performance, or toxic and pretreatment effluent standards have been promulgated pursuant to Sections 301, 302 and 307 of the Federal Water Pollution Control Act.
4. The issuance of waste discharge requirements for this discharge is exempt from the provisions of Chapter 3 (commencing with Section 21000) of Division 13 of Public Resources Code (CEQA) in accordance with Water Code Section 13389.
5. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge, and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
6. The Board in a public meeting heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, Zilog Incorporated, pursuant to the provisions of Division 7 of the California Water Code and regulations adopted thereunder, and to the provisions of the Federal Water Pollution Control Act as amended and regulations and guidelines adopted thereunder, shall comply with the following:

A. Discharge Limitations

1. The discharge shall be limited to wastewater of the quantity, quality, and type described in the permit application.
2. The discharge shall not cause a pollution or nuisance as defined in the California Water Code.
3. The discharge shall not contain biocides or algacides.
4. The discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Board or the State Water Resources Control Board as required by the Federal Water Pollution Control Act and regulations adopted thereunder.

B. Provisions

1. This order includes the attached "Standard Provisions" dated October 15, 1975.
2. This Order expires on June 21, 1982. The discharger must file a Report of Waste Discharge in accordance with Title 23, Chapter 3, Subchapter 9 of the California Administrative Code not later than 180 days in advance of such expiration date as application for issuance of new waste discharge requirements.
3. The discharger shall furnish technical or monitoring reports as directed by the Executive Officer.
4. The discharger shall file with the Board a report of waste discharge at least 120 days before making any material change in the character, location, or volume of the discharge.

This Order shall serve as a National Pollutant Discharge Elimination System permit pursuant to Section 402 of the Federal Water Pollution Control Act, or amendments thereto, and shall take effect at the end of ten days from date of hearing provided the Regional Administrator, Environmental Protection Agency, has no objections.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on July 19, 1977.

FRED H. DIERKER
Executive Officer

2189.8078

Attachments:

Standard Provisions
for Minor Discharges (10/75)
Self-Monitoring Program

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

STANDARD PROVISIONS
FOR MINOR DISCHARGES

OCTOBER 15, 1975

1. The discharger shall permit the Regional Board:
 - (a) Entry upon premises in which an effluent source is located or in which any required records are kept;
 - (b) Access at reasonable times to copy any records required to be kept under terms and conditions of this Order;
 - (c) Inspection at reasonable times of monitoring equipment or records; and
 - (d) Sampling at reasonable times of any discharge.
2. All discharges authorized by this Order shall be consistent with the terms and conditions of this Order. The discharge of any pollutant more frequently than or at a level in excess of that identified and authorized by this Order shall constitute a violation of the terms and conditions of this Order.
3. The discharger shall maintain in good working order and operate as efficiently as possible any facility or control system installed by the discharger to achieve compliance with the waste discharge requirements.
4. After notice and opportunity for a hearing, this Order may be terminated or modified for cause, including, but not limited to:
 - (a) Violation of any term or condition contained in this Order;
 - (b) Obtaining this Order by misrepresentation or failure to disclose fully all relevant facts;
 - (c) A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
5. If a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Federal Water Pollution Control Act, or amendments thereto, for a toxic pollutant which is present in the discharge authorized herein and such standard or prohibition is more stringent than any limitation upon such pollutant in this Order, the Board will revise or modify this Order in accordance with such toxic effluent standard or prohibition and so notify the discharger.
6. In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the existence of this Order by a letter, a copy of which shall be forwarded to the Board.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

Zilog Incorporated

Cupertino

Santa Clara County

NPDES NO. CA 0028312

ORDER NO. 77-98

CONSISTS OF

PART A dated 7/74

AND

PART B

PART B

I. DESCRIPTION OF SAMPLING STATIONS

A. Effluent

<u>Station</u>	<u>Description</u>
E-1	At any point in the outfall of the waste between the point of discharge and the point at which all waste tributary to that outfall is present.

II. SCHEDULE OF SAMPLING AND ANALYSIS

A. The schedule of sampling and analysis shall be that given as Table I.

III. MODIFICATION OF PART "A", DATED 7/74

1. Does not include the following paragraphs of Part A:

C3, C4, C5a, C5c-e, D1, D4, E2, E3 and E4.

2. Includes the following modifications:

- a. Paragraph 3: Self-Monitoring Reports shall be submitted yearly not later than January 15th. However, a special one time monitoring report shall be submitted within thirty days of the adoption of Order No. 77-98.
- b. Paragraph 3.e.: Your responsibilities under the Self-Monitoring Program will be fulfilled by filing with this Regional Board all documents specified in the program except EPA Form 3320-1. You do not need to file the Federal "Discharge Monitoring Report" (Form EPA 3320-1) with the EPA.

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 77-98.
2. Has been ordered by the Executive Officer on _____, and becomes effective upon discharge. All samples will be scheduled and reported within thirty days of commencing discharge.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.

FRED H. DIERKER
Executive Officer

Attachments:
Table I

Date Ordered _____

TABLE I
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	E-1												
TYPE OF SAMPLE	G-24	O											
Flow Rate (mgd)	Y												
BOD, 5-day, 20° C, or COD (mg/l & kg/day)													
Chlorine Residual & Dosage (mg/l & kg/day)	Y												
Settleable Matter (ml/1-hr. & cu. ft./day)													
Total Suspended Matter (mg/l & kg/day)	Y												
Oil & Grease (mg/l & kg/day)	Y												
Coliform (Total or Fecal) (MPN/100 ml) per req't													
Fish Toxicity, 96-hr. % Survival in undiluted waste	Y												
Ammonia Nitrogen (mg/l & kg/day)													
Nitrate Nitrogen (mg/l & kg/day)													
Nitrite Nitrogen (mg/l & kg/day)													
Total Organic Nitrogen (mg/l & kg/day)													
Total Phosphate (mg/l & kg/day)													
Turbidity (Jackson Turbidity Units)													
pH (units)	Y												
Dissolved Oxygen (mg/l and % Saturation)													
Temperature (°C)	Y												
Apparent Color (color units)													
Secchi Disc (inches)													
Sulfides (if DO < 5.0 mg/l) Total & Dissolved (mg/l)													
Arsenic (mg/l & kg/day)													
Cadmium (mg/l & kg/day)													
Chromium, Total (mg/l & kg/day)													
Copper (mg/l & kg/day)													
Cyanide (mg/l & kg/day)													
Silver (mg/l & kg/day)													
Lead (mg/l & kg/day)													

TABLE I (continued)
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	E-1											
TYPE OF SAMPLE	C-24	O										
Mercury (mg/l & kg/day)												
Nickel (mg/l & kg/day)												
Zinc (mg/l & kg/day)												
PHENOLIC COMPOUNDS (mg/l & kg/day)												
All Applicable Standard Observations		Q										
Bottom Sediment Analyses and Observations												
Total Identifiable Chlorinated Hydrocarbons (mg/l & kg/day)												

LEGEND FOR TABLE

TYPES OF SAMPLES

G = grab sample
 C-24 = composite sample - 24-hour
 C-X = composite sample - X hours
 (used when discharge does not
 continue for 24-hour period)
 Cont = continuous sampling
 DI = depth-integrated sample
 BS = bottom sediment sample
 O = observation

TYPES OF STATIONS

I = intake and/or water supply stations
 A = treatment facility influent stations
 E = waste effluent stations
 C = receiving water stations
 P = treatment facilities perimeter stations
 L = basin and/or pond levee stations
 B = bottom sediment stations
 G = groundwater stations

FREQUENCY OF SAMPLING

E = each occurrence
 H = once each hour
 D = once each day
 W = once each week
 M = once each month
 Y = once each year

2/H = twice per hour
 2/W = 2 days per week
 5/W = 5 days per week
 2/M = 2 days per month
 2/Y = once in March and
 once in September
 Q = quarterly, once in
 March, June, Sept.
 and December

2H = every 2 hours
 2D = every 2 days
 2W = every 2 weeks
 3M = every 3 months
 Cont = continuous